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Westinghouse Hanford Company P.O. Box 1970 Richland, WA 99352

Dear Mr. Lerch:

Thank you for purchasing analytical testing services from IT Corporation. It is our intention to supply our clients with data packages which not only meet the industry's highest standards for quality, but are also easy to use. Features which we point out are:

1. A Data Summary Packet which allows you to review your data without searching through the complete data package.

Your Data Summary Packet contains the following items:

- Case Narrative: listing of sample identifications, analyses performed, explanation of any problem associated with samples, corrective action taken.
- Quality control sample identifications and analyses performed.
- Data summary.
- 2. A data package which meets the specific requirements you requested and is easy to use as well. The package is organized in accordance with the Table of Contents which you will find at the beginning of each section. Sections are separated by color-coded tabs, making it easy to find individual analytical parameters which may be of particular interest to you. The data package is custody-sealed at the laboratory your assurance that parts of the package are not missing.

We are constantly searching for ways to improve our service to you. This current product has many of the features which you have told us are important to you. Your suggestions regarding additional improvements will be appreciated.

Please contact me with any questions or suggestions 8 192021

Wade H. Price

Project Manager

Regional Office

13715 N. Rider Trail • Earth City, Missouri 63045-1205 • 314-298-8566 • FAX: 314-298-8757



CERTIFICATE OF ANALYSIS

Westinghouse Hanford Company P.O. Box 1970 Richland, Washington 99352

July 14, 1994

Attention: J. A. Lerch

Project number	;	519.45
Date Received by Lab	:	June 9, 1994
Number of Samples	:	Six (6)
Sample Type	:	Soil
SDG Number	:	W0089
Data Deliverable	:	Summary Stand Hone 7/20/94

I. Introduction

On June 9, 1994, six (6) soil samples were received by ITAS-Richland and transferred to ITAS-St. Louis for chemical analysis. Upon receipt, the samples were given the following laboratory ID numbers to correspond with the specific client ID's:

St. Louis ID	WHC ID	Richland ID	Matrix	Date of Receipt
5304-001	BO8NV8	40619801	Soil	06/09/94
5304-002	BO8NV9	40619802	Soil	06/09/94
5304-003	BO8NW1	40619803	Soil	06/09/94
5304-004	BO8NW2	40619804	Soil	06/09/94
5304-005	BO8NW3	40619805	Soil	06/09/94
5304-006	BO8NW4	40619806	Soil	06/09/94

II. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results, and the appropriate detection limits.

Analyses requested: TPH by EPA method 8015.

Westinghouse Hanford Company July 14, 1994 Project Number: 519.45

Page 2

III. Quality Control

A Laboratory Control Sample and Method Blank were analyzed with each preparation batch. Matrix Spike and Matrix Spike Duplicate analyses were performed for all analytes in this SDG.

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank QCLCS- Quality Control Laboratory Control Sample, Blank Spike

V. Comments

The client asked for both diesel (called Fuel Oil #2 in the standard mixes) and for contaminants heavier than diesel to be quantitated by the method. Per our SOP, we calibrate everything using Fuel Oil #2. An initial calibration for Fuel Oil #2 is accompanied by an injection of Fuel Oil #1 (lower boiling) and waste oil (higher boiling, equivalent to motor oil) to show that the calibration factor for the three oils do not vary by more than 15%.

The sample chosen for preparation of MS and MSD, 5304-001, contained motor oil at a concentration of 1200 mg/kg. Diesel was spiked into the samples at 130 mg/kg, and although it was qualitatively detected by pattern, quantitation of the diesel was not possible. Therefore, the recovery of the MS and MSD spike are given as NC (not calculated). The recovery of the diesel spike in the LCS was 98%.

The surrogate recovery for 5304-001 MS (219%) was outside the laboratory-generated control limits of Detected to 217%. This was deemed to be due to matrix effect, and is flagged in the data report.

Westinghouse Hanford Company July 14, 1994

Project Number: 519.45

Page 3

I certify that this Certificate of Analysis is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

Wade H. Price Project Manager z:\annelars\hanw0089.nar

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HBH	ANALYSIS	DATA	SHEET

EPA	SAMPLE	NO.
BOSN	W1	

Lab Name: <u>ITAS-St. Louis</u>	Contract: 519.45
Lab Code: ITSL Case No.: SAS No.	: SDG No.:W0089
Matrix: (soil/water)SOIL	Lab Sample ID: <u>5304-003</u>
Sample wt/vol:(g/ml)	Lab File ID:
Level: (low/med) LOW	Date Sampled: 06-08-94
% Moisture: not dec8 dec	Date Extracted: 06-22-94
Extraction: (SepF/Cont/Sonc/Shak) SONC	Date Analyzed:07-01-94
GPC Cleanup: (Y/N) N pH:	Dilution Factor: 1
	ENTRATION UNITS:

CAS NO.	Compound	(mg/L or mg/Kg) mg/Kg	Q
	DIESELMOTOR OIL	27	U
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U: Concentration of analyte is less than the value given.

1D HBH ANALYSIS DATA SHEET

EPA	SAMPLE	NO.
BQ81		

Lab Name: ITAS-St. Louis	Contract: 519.45
Lab Code: <u>ITSL</u> Case No.: SAS No.:	SDG No.:W0089
Matrix : (soil/water) SOIL	Lab Sample ID: <u>5304-004</u>
Sample wt/vol:(g/ml)	Lab File ID:
Level: (low/med) LOW	Date Sampled: 06-08-94
% Moisture: not dec dec	Date Extracted: 06-22-94
Extraction: (SepF/Cont/Sonc/Shak)SONC	Date Analyzed: 07-02-94
GPC Cleanup: (Y/N) N pH:	Dilution Factor: 1
	TRATION UNITS: or mg/Kg) mg/Kg Q
DIESEL	
MOTOR OIL	110

U: Concentration of analyte is less than the value given.

1D HBH ANALYSIS DATA SHEET

SAMPLE	NO.
W3	
	Sample W3

Lab Name: ITAS-St. Louis	Contract: 519.45
Lab Code: ITSL Case No.: SAS No.	: SDG No.:W0089
Matrix : (soil/water) SOIL	Lab Sample ID:5304-005
Sample wt/vol:20.0(g/ml)	Lab File ID:
Level: (low/med) LOW	Date Sampled: 06-08-94
% Moisture: not dec. 3 dec.	Date Extracted: 06-22-94
Extraction: (SepF/Cont/Sonc/Shak) SONC	Date Analyzed: 07-02-94
GPC Cleanup: (Y/N) N pH:	Dilution Factor: 1
	ENTRATION UNITS: L or mg/Kg) mg/Kg Q
DIESEL	26
MOTOR OIL	26

- U: Concentration of analyte is less than the value given.
- (1): Diesel and Motor Oil are quantitated as if they are Fuel Oil #2.

1D				
HBH	ANALYSIS	DATA	SHEET	

EPA SAMPLE NO. BO8NW4

Lab Name: ITAS-St. Louis	Contract:	19.45
Lab Code: ITSL Case No.: SAS No.:	SDG No.:	W0089
Matrix: (soil/water) SOIL	Lab Sample ID: _	5304-006
Sample wt/vol: 20.0 (g/ml) g	Lab File ID: _	
Level: (low/med) LOW	Date Sampled: _	06-08-94
% Moisture: not dec dec	Date Extracted: _	06-22-94
Extraction: (SepF/Cont/Sonc/Shak) <u>SONC</u>	Date Analyzed: _	07-01-94
GPC Cleanup: (Y/N) N pH:	Dilution Factor:_	11
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CAS NO.	Compound	(mg/L or mg/Kg) mg/Kg	Q	
	DIESEL	25		
ļ	MOTOR OIL	25	U	

U: Concentration of analyte is less than the value given.

1D HBH ANALYSIS DATA SHEET

EPA SAMPLE NO. BO8NV8

Lab Name: <u>ITAS-St. Louis</u>	Contract: 519.45
Lab Code: ITSL Case No.: SAS 1	No.: SDG No.: W0089
Matrix : (soil/water)SOIL	Lab Sample ID: 5304-001
Sample wt/vol:(g/ml)	Lab File ID:
Level: (low/med) LOW	Date Sampled: 06-08-94
% Moisture: not dec. 3 dec.	Date Extracted: 06-22-94
Extraction: (SepF/Cont/Sonc/Shak) SONC	Date Analyzed:07-02-94
GPC Cleanup: (Y/N) N pH:	Dilution Factor: 1
	NCENTRATION UNITS: g/L or mg/Kg) mg/Kg Q
DIESEL	

U: Concentration of analyte is less than the value given.

__MOTOR OIL__

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HBH	ANALYSIS	DATA	SHEET	

EPA	SAMPLE	NO.
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Lab Name: <u>ITAS-St. Louis</u>	Contract:519.45
Lab Code: ITSL Case No.: SAS No.:	: SDG No.: <u>W0089</u>
Matrix : (soil/water)SOIL	Lab Sample ID: 5304-002
Sample wt/vol:(g/ml)	Lab File ID:
Level: (low/med) LOW	Date Sampled: 06-08-94
% Moisture: not dec. 3 dec.	Date Extracted: 06-22-94
Extraction: (SepF/Cont/Sonc/Shak) SONC	Date Analyzed: 07-02-94
GPC Cleanup: (Y/N) N pH:	Dilution Factor: 1
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DIESEL	
MOTOR OIL	1100

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ITAS - St. Louis June 18, 1994
Account: 10722 Project: 519.45 ITAS - Richlend
Master Sample Login: 5304 585 Rev. 0

Project

W. Price

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3**Sample has not been rad screened.

-	Account:	Master Sample I	Login: 5304	13 am No. 585 Rev. O		
Sample Header Template:						
Sample No. Client 10 Comments # Container Type Data:	C-Matrix Analysis				ad Category Rad Sample No. (Container Numbers:% Fi	lled)
5304-006 BOBNIA RICHLAND 1.0.# 18 40619806	Soll SPIKE WITH DIESEL; QUANTI	08-JUN-94-13:00 (Tate both diesel and motor di	99-JUN-94-08:30-1	4-жц-94 FED-EX 2	R2388-001	
2 AN - Amber Glass-120ML 1 AN - Amber Glass-60ML	TPH/8015/04 PH/117/04	\$ COLO \$ COLO	07-4UL+94 07-3UL-94	22-JUN-94 R8E 05-DEC-94 R8E	(81942:100 81943:100) (81944:100)	



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

CUR#:450	
Reference Document No.	45 3690
Page 1 of Z	• • • •

CORPORATIO	N	GNA	IIIA OL C	,03 i Oi	JI NE	JUND	age 1 01 <u>~</u>	•	
Project Name/No	Samp	oles Shipm	ent Date	7 6/9	· <i>]94</i> Bill	to:5 174	s Richland		
ımple Team Members		***************************************		estination					<u></u>
Profit Center No	1. 3 4632		Lat	Contact	9				
Project Manage	er4 Van Pettey	Proje	ect Contac	t/Phone	12	Report	to:10 ITAS	Rivaland	
Purchase Order No	•		Carrier/W	aybill No.	13	nepoir	LU;		
Required Report Date			ONE	CONT	AINER	PER LINE		·	
Sample ¹⁴ Number	Sample ¹⁵ Description/Type	Date/Time ¹⁶ Collected	Container ¹¹	Sample 18		Requested Testing ²⁰	Condition (on ²¹ Dispos	rai ²² No.
40619801 A B	30 BN 18/50;/	50914 0:20	AG /R	FA	400				
B	1	19/14 a:20	46	120nl	1		3º F.C	JR LAB	
		6/4/44 4:20	A6	60ml			3º US	E ONLY	
10619802A B	08 NV9/Soil	6/4/44	AG	120mL			3°		
\ . B	·		AG	120mL			3°	an I An	
ے ا		V	AG	boni			3°	EONIV	
106019803A B	08 NWI /50:/	6/4/14	AG	120-1			3"		
l B		678/44	AG	120nl			33		
pecial Instructions	: 23	· · · · · · · · · · · · · · · · · · ·				_			
ossible Hazerd Ide Ion-hazard 🖵 🛚 Flam		ritant 🔲 Pois	son B 💷	Unknown		Sample Disposal: 25 Return to Client Dis	sposal by Lab 🖵	Archive	(mo
urnaround Time Ro Iormal 🖾 Rush 🗓			QC	Level: ²⁷		Project Specific (specify)	<u> </u>		(,,,,,
. Relinquished by ²⁸	Total IT	A 1999	e: <i>6/9/4</i>	<u>* </u>		ived by 28 /// // //	mile	Date: 10 Jane 1	199
. Relinquished by gnature/Affikation)		<u> </u>	e:		2. Rece	ived by (Milietion)		Date: Time:	
. Relinquished by ignature/Affiliation)		Date Time			3. Rece (Signature/A	ved by		Date: Time:	
Comments: ²⁹		0.04	00011						



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.30 453690 Page Z of Z

Project Name

SDG W0089

Project No.

94-260

Samples Shipment Date

6/9/14

Sample ¹⁴ Number	Sample 15 Description/Type	Date/Time 16	Container 17 Type	Sample 18 Volume	Pre-19 servative	Requested Testing ²⁰ Program	Condition on 21	Disposal 22 Record No.
06198030	B08NW1/501/	Collected Collected See Wik	COC BY	A	4°C	i	3°	
0619804A	B08NWZ/50i/	6/8/94	120ml AG		1		3°	1.68
) B	1	1	120 ml				3°	ONLY
C	l l	1	60ml				30	ge pps victore
10619805A	B08NW3/50;/	6/9/94 1	sonly.				5"	
<u>B</u>	i		120ml AG			778	50	9 : 14
1 2			60 nLAG				5°	
0619806A	B08 NW4/50i/	6/2/94	120 ml AG				5°	1
1 .B	1		nom Ho				50	W W. WW
		1	60ml AG				5.	-
- 3 Wala	4						, all light to see	FF LAND
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Westinghouse Hanford Company		CH	AIN OF	CUSTODY		
Custody Form Initiator (Company Contact Cyclic Project Designation/Samp Ice Chest No. Ru#7 Bill of Lading/Airbill N Method of Shipment Hand Shipped to IT Labo Possible Sample Hazards/	E. Heiden Ling Locations Riverlo o d Delivery / DOE Veh Vatories, Richland	ide		Telephone 376- Collection Date 66 Field Logbook No. 6 Offsite Property No.	/8/44 EFL - 1042-3 D-W94-0-057	3 [#] 11
BOBNVB → (A) BOBNV9 → (A) BOBNWI → (A) BOBNWA → (A) BOBNW3 → (A) BOBNW4 → (A)	180 ml AGjars; (180 ml AGjars;	Sample Ident: 1) 60 ml Ac (1) 60 ml Ac (1) 60 ml Ac (1) 60 ml (1) 60 ml	rjar	406/ OIABC OZABC O3ABC O4ABC O5ABC OGABC	98	
[] Field Transfer	of Custody	Chain of Poss	ession		(Sign and P	rint Names)
Relinquished By	Date 6/9/94	7 ine 0750 3	Re Karm Ac	Atalug TOS	Date 6-9-94	Fime F:30
		Final Sample D)isposition			

Disposed by:

Date/Time:

Disposal Method:

Comments:

DON'T SAY IT --- Write It!

DATE: April 22, 1993 93-33530-052

TO: J. E. Lindsey

SO-05

FROM: K. A. Smith

Telephone: 6-3323

cc:

R. H. Griffin

R. E. Heineman J. W. Schmidt

R3 - 12H6-30

P. J. Valcich C. D. Wade

H6-04 NI-06

S4-67

KAS: File/LB

SUBJECT: FACILITIES/AREAS EXEMPT FROM RADIOLOGICAL RELEASE SURVEY

Add the following areas/ facilities to the approved exempt facility/area list:

FACILITY/ AREA

NAMES AND LOCATIONS: The 100-IU-1 Operable Unit and all waste sites contained within. Includes: Riverland Rail Yard Homestead Sites, Munition Cache, antiaircraft artillery sites, and Military Exercise Sites. The Operable Unit is located south of the Vernita Bridge and west of Highway 240.

BASIS: With the exception of the Riverland Rail Site, the area has no history of work with radioactive materials within it's boundaries. The Rail Site was remediated in the 1960s and follow-up surveys with conventional instrumentation and USRADS show no areas containing elevated radiological levels. Core samples taken at the wash pad area were analyzed and found to contain less than 20 pCi/gram of total radioactive material. The site is located up-stream of the prevailing winds from the direction of Hanford operations and wind-blown contamination is not likely to be present.

REFERENCES: Radiation Survey Report numbers 127760, 127663, 128144, 145977.

CONTACT: If there are any questions concerning this exemption please contact C. D. Wade (6-3770) or K.-A. Smith at 6-3323.

 $x_{i,j+1}$

Contractor
Westinghouse
Hartord

OFF-SITE

CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT)
W194-0-0573#41

Hartord	·	PK	OPERIT COM	NIKUL		W44-0-C	<u> ソラノ</u>	3#41
	7.4	PAR	TI-TO BE COMPLE	TED BY OR	IGINATOR			
Department Env	Support	Section	Field Tracterization	en Pro	jects	Unit		
	ollowing items are	to be shipped from		ractor	☐ Vendor			
Rout	1777 42	CARRY	/ 🔀 Cont	ractor	☐ Vendor	1		
Shipped to IT Late 2800 Gr	porotories porge Wash nd, WA q	ington Way	I	e Custodian				
Kich las	nd, WA G	3352						9
Quantity		Description (Inc	lude Serial and any	y Governme	ent Tag Number	rs)	Ori	ginal Cost
Classifie Necessity for the Of Sange SS 1-	Sample # Weight _ d \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	BCBNVB, E BCBNW3	308NV9, B and Bo8N 	OBNW IW4 coler #	Shipped	Under Contractor's Us	e Permit C	
CERTIFICATION RM Clearance for P		ON MONITORING R		ECURED TH RM Survey		IAT MATERIAL IS DELIV	ERED TO S	#IPPING.
Location of Propert			Contact	E. 4	iden		Phone	-2640
Date Ready for Ship	264 100-IU Oment 19194	-1	Cost Code to be Cl			Approximate Date This Property will be Return	ed N/	4
	ig E. Heid		Date	Authorize		7605		6/7/94
Signature and Nam	e of Property Contro	ol	Custodian Date	roperty	Adna de l'eny A	037		STRALL
		PA	RT I I – TO BE COM	PLETED BY	SHIPPING		~	7-3/1-7
Signature of Recipion	ent Menleg -94		Return Order No.		Date Issued	Purchase Order No:		Date Issued
6-9	-94	P:30						

DISTRIBUTION

By Originator White, Green, Yellow, Pink - Property Management

Goldenrod - Retain

Shipping Operation - Sign all-Copies and Forward to:

White – Property Management Green – Property Control Custodian (issuing Office) Yellow – Retain Pink – Originator

and salound



SAMPLE CHECK-IN LIST

(1 Per Shopping Container)

Date/Ti	me Received 6-9-94 8:30 Client Name WHC
Project/	Client # 94-260 Batch or Case # N/A
Cooler I	ID (if noted on the outside of cooler)
1.	Condition of shipping container?
2.	Custody Seals on cooler intact? Yes No
3.	Custody Seals dated and signed? Yes No No
4.	Chain of Custody record is taped on inside of cooler lid? Yes No 🗆
5.	Vermiculite/packing material is: Wet □ Dry
6.	Each sample is in a plastic bag? Yes No 🗆
7.	Number of sample containers in cooler: ###6-9-44
8.	Samples have: hazard labels
	custody seals appropriate sample labels
9.	Samples are:in good conditionleaking
	broken have air bubbles
	other
10.	Coolant present? Yes No □
Sample	e temperature 400.
11.	The following paperwork should be accounted for (N/A if not applicable):
	Chain of Custody #'(s)
	Request for analysis #(s)
	Airbill #
12.	Have any anomalies been identified above? Yes □ No ☑
13.	Memos have been initiated for all anomalies identified above? Yes □
Printed	Name/Signature Tom 6:/non Tome Date/Time 6/9/99 0830
EODM N	NO 15.042 Bay 0. 2/04

Westinghouse SAMPLE ANALYSIS REQUEST **Hanford Company** Date 6/8/94 Company Contact Craia E. Heiden Telephone (509) 376 - 2640 Sample Date Time Number and Type of Sample Containers/Analysis Required Collected Number Collected (1)120ml, TPH-Diesel; (1)120ml, TPH 7 Diesel 5 0920 BOBNUB 618194 (1) 60 ml Activity Scan (1) 120 ml, TPH- Diesel: (1) 120 ml, TPH > Diesel B08NV9 0940 6/8/94 (1) 60 ml Activity Scan (1) 120 ml, TPA-Diesel: (1) 120 ml, TPH > Diesel 618194 0945 BOBNWI (1) 60 ml Activity Scan (1) 120ml, TPH-Diesel , (1) 120ml, TPH > Diesel 5 0938 BOBNWA 6/8*1*94 (1)60 ml Activity Scan (1)120 ml, TPH-Diesel: (1)120 ml, TPH 7 Diesel B08NW3 6/8/94 0929 (1) 60 ml Activity Scan 6/8/94 (1) 120 ml, TPH-Diesel': (1) 120 ml TPH7 Diesel 1300 BOBNW41 (1) 60 ml Activity Scan NOTE: Method BOISM TPH - Diesel TPH > Diesel Method 8015M *Type of Sample X = Other A = AirL = Liquid SE = Sediment T = Tissue DL = Drum Liquids 0 = 0iSL = Sludge W = Water DS = Drum Solids S = Soil SO = Solid Wi = Wipe Field Information ____ Special Handling and/or Storage Keep samples at 4° C Possible Sample Hazards

Sample(s) on hold until:

Project Management Review:

COPIEDTO: Wite frice DATE: 10 Same track Work Order No.:_____ TIME: 10:15 Condition Upon Receipt Variance Report BY: Jet Deniche ITAS - St. Louis Laboratory Date: 10 Jan 1994 Client: _____ Project No:___ RFA/COC Numbers: 453690 Analysis Requested: Refer to RFA/COC Client Sample Numbers Affected: Entire Login Condition/Variance (Check all that apply): Circle Number to Denote that Item was Evaluated. "NA" = "Not Applicable". (8.) Custody tape disturbed/broken/missing. NA Not enough sample received for proper analysis. NA Sample splits performed by lab. Received approximately: 10. Sample received broken/leaking. NA Volatile sample received with approximately Sample received without proper preservative. _____ mm headspace. Sample ID on container does not match sample ID on paperwork. Explain: □ pH □ other: _____ Sample received in improper container. All coolers on airbill not received with shipment. 威 Sample received without proper paperwork. Explain: Other (explain below): Shipping containers not rad surveyed. Paperwork received without sample. No sample ID on sample container. Notes: Two unlabeled trip blanks (40 nL AG) received. Corrective Action: Informed verbally on: Client's Name: Client's Name: Informed in writing on: Sample(s) processed "as is". Comments:

Sample Control Supervisor Review: (or designate) ble famelog Date: 10 June 1994

If released, notify:

Date: